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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/674,559	09/30/2003	Bernd Heigl	DT-6635	5109
30377 75	590 12/14/2004		EXAMINER	
DAVID TOREN, ESQ.			COLON SANTANA, EDUARDO	
SIDLEY, AUSTIN, BROWN & WOOD, LLP		ART UNIT	PAPER NUMBER	
787 SEVENTH AVENUE NEW YORK, NY 10019-6018			2837	

DATE MAILED: 12/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	XIV
	10/674,559	HEIGL ET AL.	
Office Action Summary	Examiner	Art Unit	
	Eduardo Colon-Santana	2837	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence addre	ess
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely, the mailing date of this comn D (35 U.S.C. § 133).	nunication.
Status			
1) Responsive to communication(s) filed on			
<i>'</i> =	action is non-final.		
3) Since this application is in condition for allowar	•		erits is
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.	•
Disposition of Claims			
 4) Claim(s) <u>1-8</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 	vn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-8</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	r election requirement.		
Application Papers			
9)⊠ The specification is objected to by the Examine	r.		
10) ☐ The drawing(s) filed on 30 September 2003 is/a Applicant may not request that any objection to the			ier.
Replacement drawing sheet(s) including the correct			1.121(d).
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO	-152.
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).	
a) ⊠ All b) □ Some * c) □ None of:	priority arraor 55 5.5.5.3 1.15(a)	, (a) 0. (.).	
1. Certified copies of the priority documents	s have been received.		
2. Certified copies of the priority documents	s have been received in Applicati	on No	•
Copies of the certified copies of the prior	•	ed in this National St	age
application from the International Bureau		•	
* See the attached detailed Office action for a list	of the certified copies not receive	ea.	
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)		
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Notice of Informal P		52)
Paper No(s)/Mail Date <u>3/4/2004</u> .	6) Other:		

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 03/04/2004 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Drawings

- 3. The drawings are objected to because: the figure is not labeled; applicant is advice to label the figure (i.e. Figure 1 or Sole Figure). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application.
- 4. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "supply current delta connection" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number

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f a drawing

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of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

5. The disclosure is objected to because of the following informalities: There is a error in the section headings, there should only be one Summary of the Invention and a Brief Description of the Drawing.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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6. Claims 1-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Masaki et al. U.S. Patent No. 5,414,339.

Referring to claim 1, Masaki et al. discloses an electric vehicle control system (see the figures and respective portions of the specification). Masaki further depicts from figure 19, a battery-supplied inverter having main bridges (46, 47 and 48) for an induction motor (3) having windings (43, 44, 45) being connected respectively via two supply current lines (u, v, and w) to a supplying battery (8a-8c). Furthermore, Masaki et al. states that although an induction motor is described, the same principals can be applied to a synchronous ac and dc motors (see Col. 11, lines 45-49). Additionally, figure 19 shows stator windings (43, 44 and 45) as being capable of creating a delta connection by simple reallocation of the windings.

As to claim 2, Masaki et al. discloses a supply connection (u, v and w) associated with an inverter section (46, 47 and 48) for each phase winding (43, 44 and 45).

Referring to claims 3 and 4, Masaki et al. shows the use of power semiconductors (i.e. MOSfets, transistors) with the inverter sections (46, 47 and 48), in which the inverter is configures for controlled switching of at least three phase windings (43, 44 and 45).

As to claims 5 and 6, Masaki et al. discloses through out the drawings current sensors (i.e. 13a, 13b...) for each supply current connection and wherein the sensors are connected to a control element (7).

As to claim 7, see figures 1, 4, 7, 11, 13, 17 and 20, wherein the inverter is connected to the control element (microprocessor 7).

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Referring to claim 8, Masaki et al. discloses the use of temperature sensors as depicted in figure 7, items (30, 31) also being connected to the control element (7).

Conclusion

7. The prior art made of record in form 892 and not specifically relied upon is considered pertinent to applicant's disclosure to further show the state of the art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eduardo Colon-Santana whose telephone number is (571) 272-2060. The examiner can normally be reached on Monday thru Thursday 6:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Martin can be reached on (571) 272-2800 X.37. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Pusiness Center (EBC) at 866-217-9197.

ECS December 2, 2004

DAVID MARTIN
SUPERVISORY PATENT EXAMINED
TECHNOLOGY CERTER

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